

EE-595

Wireless Charging Table Team 3



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<http://phandroid.s3.amazonaws.com/wp-content/uploads/2011/03/lg-wireless-charging-pad-550x383.jpg>

EE-595

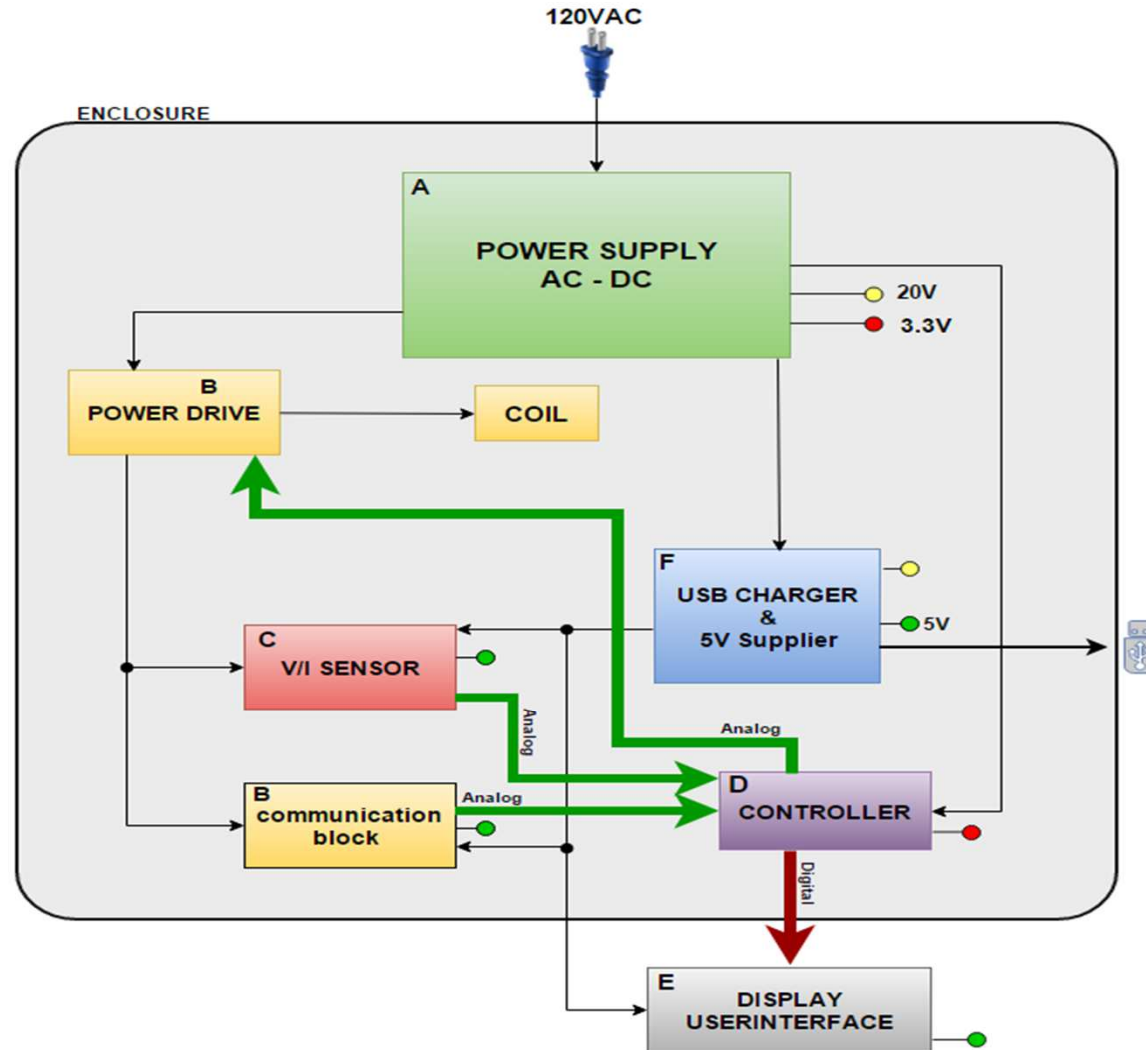
Wireless Charging Table

Description

- Device will provide both Qi* compliant wireless or wired charging for mobile devices.
 - Feedback information including charger state (sleeping, sensing, charging) plus device information displayed on an LCD screen.
 - Offers either wired (USB) or wireless (inductive) charging.
 - Advanced power saving algorithms.
 - North American market
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- Qi Inductive Power Standard: <http://www.wirelesspowerconsortium.com/>

EE-595 Block Diagram

OWNERS
Muath A
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Chad E



EE-595

Key Requirements

- **Cost**
 - Sales Price: \$100, Component Cost: \$50, Assembly & Test Costs: \$10
- **Environment**
 - Indoor environment
 - Operating Temp Range: 0 - 50 °C
 - Operating Humidity Range: 0% - 100%
- **Power Input(s)**
 - Residential AC Power: 102 - 132 VAC @ 200 mA Max, 60 Hz
- **Major Functions, Quantities Measured, Displayed**
 - *Major Modes:* Sleep, charging, sensing modes
 - Battery charge percentage
 - 10 mV wireless charging resolution
 - DCP USB delivering 5 watts of power
 - Qi Compliance